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## TECHNICAL INFORMATION

### UV ForensiTORCH™

Catalog Nos. UVFT100, UVFT1000, UVFT2000

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#### INTRODUCTION

The UVFT100 UV ForensiTORCH™ features a single, very high intensity 1-watt UV LED which provides +50,000 hours of life under normal use. Whether the search is conducted in subdued light or broad daylight, the UVFT100 is the perfect choice in the preliminary examination and location of physical evidence. This light-weight unit is powered by 3 AAA alkaline batteries that typically provide uninterrupted light for up to 3 hours.

The UV ForensiTORCH™ operates at a frequency of 395nm. This is an ideal waveband for locating items of forensic interest and many other applications such as counterfeit bills, forgery detection, false tickets and identification cards, and fluoresces DFO, fluorescent latent powders, Basic Yellow and Ardrox. No special barrier goggles are required to view any fluorescence, but it is recommended that clear UV goggles be worn for general eye protection.

The UVFT100 is an integral component of SIRCHIE's No. UVFT1000 ForensiTORCH™ Latent Print Kit and the UVFT2000 ThiefCatcher™ II Invisible Theft Detection Kit. The UVFT1000 kit

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contains regular and magnetic fluorescent powders, brushes, a magnetic wand and hinge lifters. This assortment permits latent print development on confusing or multi-colored backgrounds. The UVFT2000 features some of the most sought after ultraviolet materials which includes UV powders and paste, a UV marking pen and crayons, and our ever-popular Clue Spray™. This kit is ideal for use by law enforcement, business and industry to catch the criminal after-the-act.



*Invisible mark on currency is revealed with the UVFT100.*

## PRECAUTIONS

*As with natural sunlight, particularly sensitive individuals can experience eye injury and sunburn upon overexposure. Chronic exposure to such individuals may cause premature aging of the skin and skin cancer. Certain medications and cosmetics may greatly increase your sensitivity to ultraviolet radiation. If you believe yourself to be particularly sensitive to sunlight, or if you are taking any medications, consult a physician before using this light.*

- Operator protective measures include the use of UV absorbing glasses with side shields, long-sleeved shirts, gloves and long pants. These may not eliminate UV radiation, but lessen the risk of severe burn.
- Do not look or stare directly into the light source as momentary *spot blindness* may occur.
- Do not immerse in liquids.
- Avoid dropping or other impact.
- Individuals ***abnormally sensitive*** to UV radiation should not use the UVFT100.
- Certain medications and cosmetics may greatly increase your sensitivity to UV radiation. If you are taking any medications, consult a physician before using these lamps.

## PROCEDURE

When examining items of forensic interest with UV light, the fluorescence created is visible to the naked eye. To activate the UV ForensiTORCH™ Light, simply depress the ON/OFF button on the body.

## BATTERY REPLACEMENT

1. Remove the rear end cap from the light.
2. Remove the battery cartridge. Discard the used batteries following existing environmental concerns.
3. Replace with three (3) AAA alkaline batteries. Observe polarity as marked on the inside of each of the 3 battery compartments in the cartridge.
4. Insert the cartridge back into the light and replace the end cap. DO NOT over tighten.



## Fluorescent Materials Selection Guide

**Fluorescent Powders**—Fluorescent latent print powders, both magnetic and regular, work well on dark or multicolored surfaces. They greatly enhance ridge details when illuminated with an ultraviolet light.

**Detection Powders**—Brilliant fluorescent powders in various natural colors blend with nearly any background to eliminate visual detection. Good adhesion properties permit easy transfer from the object to hands or clothing. They fluoresce when exposed to UV light.

**Detection Pastes**—Brilliant fluorescent waterproof compounds have wide applications for outdoor situations or extremely smooth surfaces. After application it leaves a thin film that transfers readily to hands or clothing. Pastes do not dry out, nor are they affected by rain or other inclement conditions. They are excellent for use on doorknobs, alarm pull handles, telephones, automobiles, etc. They fluoresce when exposed to UV light.

**Invisible Crayons**—These crayons provide an excellent means of marking money, merchandise, tires, paper, cloth, etc. for identification and investigation purposes. The material is highly fluorescent when exposed to longwave ultraviolet light. Press lightly when using the crayon to avoid leaving visible wax tracings. Crayons provide a permanent label except where excessive washing or continuous heavy rubbing may wear off the marking.

**CLUE SPRAY™ Powder**—This detection powder can be sprayed on any surface, and it leaves an invisible film that is immediately transferred to hands or clothing when touched. CLUE SPRAY™ is suitable for both large and small objects. It is highly fluorescent when exposed to ultraviolet radiation, but invisible to the naked eye.

**Invisible Marking Pen**—The No. UV700 Fluorescent Invisible Marking Pen permanently marks paper, cardboard, cloth, wood and any other porous materials. Marks are made easily and may be removed from glass, plastics, metals and any other non-porous materials. Markings fluoresce a brilliant blue/white when exposed to UV radiation.



**UVFT1000 Contents:**

- 1- UVFT100 UV ForensiTorch™ w/3 AAA alkaline batteries
- 1- LL701 RED<sup>ESCENT</sup>™ Latent Print Powder, 2 oz. (59ml)
- 1- LL703 GREEN<sup>ESCENT</sup>™ Latent Print Powder, 2 oz. (59ml)
- 1- LL601 RED<sup>CHARGE</sup>™ Magnetic Latent Print Powder, 1 oz. (30ml)
- 1- LL603 GREEN<sup>CHARGE</sup>™ Magnetic Latent Print Powder, 1 oz. (30ml)
- 2- 1211L Kit Size Fiberglass Brushes
- 1- 125L Standard Magnetic Powder Applicator
- 2- 131LW White Hinge Lifters, 2" x 4" (5.1cm x 10.2cm)
- 1- Custom-Fitted, High-Impact Carrying Case; Dimensions: 2.25" x 4.25" x 4" (5cm x 10.8cm x 10.2cm); Weight: 3 lbs. (1.4kg)



**UVFT2000 Contents:**

- 1- UVFT100 UV ForensiTorch™ w/3 AAA alkaline batteries
- 1- UV201 Pale Green Fluorescent Invisible Detection Powder, 2 oz. (59ml)
- 1- UV206 Salmon Fluorescent Invisible Detection Powder, 2 oz. (59ml)
- 1- UV737 Ivory White Invisible Fluorescent Crayon
- 1- UV739 Pale Green Invisible Fluorescent Crayon
- 1- UV700 Fluorescent Invisible Marking Pen
- 1- UVA2011 CLUE SPRAY™, 4 oz. (118ml)
- 2- 118L Regular Powder Brushes
- 1- UVT208 Neutral Fluorescent Invisible Detection Paste, 2 oz. (60ml)
- 1- Custom Fitted, High-Impact Carrying Case; Dimensions: 12.25" x 9" x 4" (31.1cm x 22.9cm x 10.2cm); Weight: 3.35 lbs. (1.5kg)